

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) An electric breast pump comprising :
at least one hood member adapted to be fitted over a breast of a user;
a chamber ~~adapted to be in fluid-~~ air communication with said hood member
~~via~~ a first valve;
a first motor;
~~operatively associated with~~ a pumping member movable by said first motor
~~which is movable to draw air from said hood member into said chamber via said first~~
~~valve; [[and]]~~
a milk-receiving bottle in liquid communication with said hood member; and
a second valve in fluid air communication with ~~the hood member~~ said bottle,
wherein said chamber having has at least a first opening and a closure
member ~~operatively associated with~~ which is movable by said first motor~~[[,]]~~ ~~wherein~~
~~said closure member is movable between a first position to close said first opening~~
and a second position in which said first opening is open; and
wherein said closure member remains at said first position when said first
motor is in operation and remains at said second position when said first motor is not
in operation.

2. (Original) A breast pump according to claim 1 wherein said closure member is biased towards said second position.

3. (Original) A breast pump according to claim 2 wherein said closure member is biased towards said second position by a spring member.

4. (Original) A breast pump according to claim 1 wherein said first valve is a one-way valve.

5. (Original) A breast pump according to claim 1 wherein said first motor is engaged with said closure member via at least one ring-shaped structure.

6. (Original) A breast pump according to claim 5 wherein said ring-shaped structure is movable between a stable first configuration to which said ring-shaped structure is biased and a second configuration in which said closure member is allowed to occupy said first position.

7. (Original) A breast pump according to claim 5 wherein said ring-shaped structure is at said stable first configuration when said first motor is not in operation and at said second configuration when said first motor is in operation.

8. (Original) A breast pump according to claim 7 wherein said ring-shaped structure rotates when said first motor is in operation.

9. (Original) A breast pump according to claim 8 wherein said ring-shaped structure moves from said first configuration to said second configuration by centrifugal force when said ring-shaped structure rotates.

10. (Previously Presented) A breast pump according to claim 1 wherein said chamber includes at least a second opening closable by a third valve.

11. (Previously Presented) A breast pump according to claim 10 wherein said third valve is a one-way valve.

12. (Previously Presented) A breast pump according to claim 11 wherein said third valve only allows air to exit said chamber.

13. (Original) A breast pump according to claim 1 further including an adjustment member manually operable to adjust the air pressure in said hood member.

14. (Currently Amended) A breast pump according to claim 13 wherein said adjustment member includes a fourth valve member in ~~fluid~~ air communication with said hood member.

15. (Previously Presented) A breast pump according to claim 14 wherein said adjustment member further includes a wheel member manually operable to adjust the amount of air allowed to enter the fourth valve.

16. (Canceled)

17. (Previously Presented) A breast pump according to claim 1 further including a second motor for selectively opening or closing said second valve.

18. (Canceled)

19. (Original) A breast pump according to claim 1 further including at least one sensing unit adapted to detect the passing of milk.

20. (Original) A breast pump according to claim 19 further including a data processing unit adapted to calculate the rate of flow of milk on the basis of data received from said sensing unit.

21. (Original) A breast pump according to claim 19 wherein said sensing unit includes at least one infrared (IR) transmitter and an IR receiver adapted to receive IR signals from said IR transmitter.

22. (Original) A breast pump according to claim 19 further including at least a second sensing unit.

23. (Original) A breast pump according to claim 22 wherein said first and second sensing units are arranged in series in the path of flow of milk in said breast pump.

24. (Original) A breast pump according to claim 23 further including a timer for determining the time duration between when passing of milk is detected by said first sensing unit and when passing of milk is detected by said second sensing unit.

25. (Original) A breast pump according to claim 21 wherein IR signals transmitted by said IR transmitter are prevented from being received by said IR receiver upon passing of milk therebetween.

26. (Original) A breast pump according to claim 19 further including a display for visually indicating the general rate of flow of milk into said breast pump.

27. (Original) A breast pump according to claim 20 wherein said data processing unit is adapted to calculate the remaining time required for filling a receptacle of milk associated with said breast pump.

28. (Original) A breast pump according to claim 20 wherein the frequency of movement of said pumping member is adapted to be varied on the basis of the rate of flow of milk calculated by said data processing unit.

29. (Original) A breast pump according to claim 25 wherein said first motor is adapted to stop operation when IR signals transmitted by said IR transmitter are prevented from being received by said IR receiver for a predetermined period of time.

30. (Currently Amended) An electric breast pump comprising:

at least one hood member adapted to be fitted over a breast of a user; and

a first chamber adapted to be in fluid air communication with said hood member *via* a first valve;

a first motor;

~~operatively associated with~~ a pumping member which is movable by said first motor to draw air from said hood member into said chamber via said first valve;

a milk-receiving bottle in liquid communication with said hood member; [[and]]

a second valve in fluid air communication with ~~the hood member~~ said bottle;

and

~~wherein said~~ a second chamber in liquid communication with said hood member and said bottle;

includes said second chamber including at least an infrared (IR) unit ~~for detecting the passing of milk, said~~

~~wherein said~~ IR unit includes including at least one IR transmitter for transmitting IR signals and at least one IR receiver for receiving said IR signals transmitted by said IR transmitter~~[[,]].~~

~~wherein said chamber has at least a first opening and a closure member operatively associated with said first motor,~~

~~wherein said closure member is movable between a first position to close said first opening and a second position in which said first opening is open, and~~

~~wherein said closure member is at said first position when said first motor is in operation and is at said second position when said first motor is not in operation.~~

31. (Previously Presented) An electric breast pump according to claim 30 further including a data processing unit adapted to calculate the rate of flow of milk on the basis of data received from said IR unit.

32. (Canceled)

33. (Previously Presented) A breast pump according to claim 30 further including at least a second IR unit.

34. (Previously Presented) A breast pump according to claim 33 wherein said first and second IR units are arranged in series in the path of flow of milk in said breast pump.

35. (Previously Presented) A breast pump according to claim 34 further including a timer for determining the time duration between when passing of milk is detected by said first sensing unit and when passing of milk is detected by said second IR unit.

36. (Previously Presented) A breast pump according to claim 30 wherein IR signals transmitted by said IR transmitter are prevented from being received by said IR receiver upon passing of milk therebetween.

37. (Original) A breast pump according to claim 31 further including a display for visually indicating the general rate of flow of milk into said breast pump.

38. (Currently Amended) A breast pump according to claim 31 wherein said data processing unit is adapted to calculate the remaining time required for filling said bottle ~~a receptacle of milk associated with said breast pump.~~

39. (Currently Amended) A breast pump according to claim 31 ~~further including a first motor operatively associated with a pumping member,~~ wherein the frequency of movement of said pumping member is adapted to be varied on the basis of the rate of flow of milk calculated by said data processing unit.

40. (Original) A breast pump according to claim 36 wherein said first motor is adapted to stop operation when IR signals transmitted by said IR transmitter are prevented from being received by said IR receiver for a predetermined period of time.

41. (Canceled)

42. (Currently Amended) A breast pump according to claim ~~[[30]]~~ 60 wherein said closure member is biased towards said second position.

43. (Original) A breast pump according to claim 42 wherein said closure member is biased towards said second position by a spring member.

44. (Previously Presented) A breast pump according to claim 30 wherein said first valve is a one-way valve.

45. (Currently Amended) A breast pump according to claim ~~[[30]]~~ 60 wherein said first motor is engaged with said closure member via at least one ring-shaped structure.

46. (Previously Presented) A breast pump according to claim 45 wherein said ring-shaped structure is movable between a stable first configuration to which said ring-shaped structure is biased and a second configuration in which said closure member is allowed to occupy said first position.

47. (Original) A breast pump according to claim 46 wherein said ring-shaped structure is at said stable first configuration when said first motor is not in operation and at said second configuration when said first motor is in operation.

48. (Original) A breast pump according to claim 47 wherein said ring-shaped structure rotates when said first motor is in operation.

49. (Original) A breast pump according to claim 48 wherein said ring-shaped structure moves from said first configuration to said second configuration by centrifugal force when said ring-shaped structure rotates.

50. (Currently Amended) A breast pump according to claim 30 wherein said first chamber includes at least a second opening closable by a third valve.

51. (Previously Presented) A breast pump according to claim 50 wherein said third valve is a one-way valve.

52. (Previously Presented) A breast pump according to claim 51 wherein said third valve only allows air to exit said chamber.

53. (Previously Presented) A breast pump according to claim 30 further including an adjustment member manually operable to adjust the air pressure in said hood member.

54. (Currently Amended) A breast pump according to claim 53 wherein said adjustment member includes a fourth valve member in fluid air communication with said hood member.

55. (Previously Presented) A breast pump according to claim 54 wherein said adjustment member further includes a wheel member manually operable to adjust the amount of air allowed to enter the ~~third~~ fourth valve.

56. (Canceled)

57. (Currently Amended) A breast pump according to claim 30 ~~60~~, further including a second motor for selectively opening or closing said second valve.

58. (Canceled)

59. (Currently Amended) An electric breast pump including:
at least one hood member adapted to be fitted over a breast of a user;
a chamber adapted to be in fluid air communication with said hood member
via a first valve;
a first motor;
~~operatively associated with a pumping member which is movable~~ by said first
motor to draw air from said hood member into said chamber via said first valve;
~~said chamber having at least a first opening and a closure member~~
~~operatively associated with said first motor,~~
a milk-receiving bottle in liquid communication with said hood member; and
a second valve in fluid air communication with said bottle; and the hood
member; and
a second motor for selectively opening or closing said second valve, ~~wherein~~
~~said closure member is movable between a first position to close said first opening~~
~~and a second position in which said first opening is open;~~
wherein said chamber has at least a first opening and a closure member
which is movable by said first motor between a first position to close said first
opening and a second position in which said first opening is open; and
wherein said closure member is at said first position when said first motor is in
operation and is at said second position when said first motor is not in operation.

60. (New) A breast pump according to Claim 30 wherein said chamber
has at least a first opening and a closure member which is movable by said first
motor between a first position to close said first opening and a second position in

which said opening is open, and wherein said closure member remains at said first position when said first motor is in operation and remains at said second position when said first motor is not in operation.